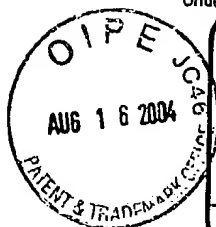


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## INFORMATION DISCLOSURE STATEMENT BY APPLICANT

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Sheet 1 of 4

### Complete if Known

Application Number 09/887,208  
Filing Date \_\_\_\_\_  
First Named Inventor CONLAN et al.  
Group Art Unit \_\_\_\_\_  
Examiner Name \_\_\_\_\_  
Attorney Docket Number 56104576-23

### U.S. PATENT DOCUMENTS

Examiner Initials*	Cite No. <sup>1</sup>	U.S. Patent Document		Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number	Kind Code <sup>2</sup> (if known)			
<u>AS</u>	1	5,437,774		LAUTSEN	08/01/1995	/
	2	3,878,564		YAO et al.	04/22/1975	
	3	4,036,748		KNICKEL et al.	07/19/1977	
	4	4,045,337		KNICKEL et al.	08/30/1977	
	5	4,045,455		VOGEL	08/30/1977	
	6	4,069,215		ELFERT et al.	01/17/1978	
	7	4,115,225		PARSI	09/19/1978	
	8	4,123,342		AHLGREN	10/31/1978	
	9	4,174,439		RAUENBUSCH et al.	11/13/1979	
	10	4,196,304		NAUMANN	04/01/1980	
	11	4,204,929		BIER	05/27/1980	
	12	4,217,227		ELFERT et al.	08/12/1980	
	13	4,238,306		PERRY et al.	12/09/1980	
	14	4,238,307		PERRY et al.	12/09/1980	
	15	4,252,652		ELFERT et al.	02/24/1981	
	16	4,259,079		BLUM	03/31/1981	
	17	4,269,967		ELFERT et al.	05/26/1981	
	18	4,276,140		JAIN	06/30/1981	
<u>AS</u>	19	4,279,724		HEARN et al.	07/21/1981	
	20	4,299,677		VENKATASUBRAMANIAN et al.	11/10/1981	

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Examiner Initials*	Cite No. <sup>1</sup>	Foreign Patent Document			Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T <sup>3</sup>
		Office <sup>3</sup>	Number <sup>4</sup>	Kind Code <sup>2</sup> (if known)				
<u>AS</u>	21	WO	97/14486		BAYER AKTIENGESELLSCHAFT	04/24/1997	/	
<u>AS</u>	22	WO	98/21384		BAYER AKTIENGESELLSCHAFT	05/22/1998		
<u>AS</u>	23	WO	98/43718		BAYER AKTIENGESELLSCHAFT	10/08/1998		

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Sheet	2	of	4
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**Application Number** 09/887,208

**Filing Date**

First Named Inventor	CONLAN et al.
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### Group Art Unit

Examiner Name \_\_\_\_\_

Attorney Docket Number	56104576-23
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**U.S. PATENT DOCUMENTS**

Examiner Initials*	Cite No.1	U.S. Patent Document		Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number	Kind Code2 (if known)			
ASB	24	4,322,275		JAIN	03/30/1982	
	25	4,362,612		BIER	12/07/1982	
	26	4,376,023		VENKATSUBRAMANIAN et al.	03/08/1983	
	27	4,381,232		BROWN	04/26/1983	
	28	4,383,923		ELFERT	05/17/1983	
	29	4,396,477		JAIN	08/02/1983	
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	31	4,533,447		MELDON	08/06/1985	
	32	4,608,140		GOLDSTEIN	08/26/1986	
	33	4,661,224		GOLDSTEIN et al.	04/28/1987	
	34	4,673,483		MANDLE	06/16/1987	
	35	4,711,722		TOYOSHI et al.	12/08/1987	
	36	4,780,411		PIEJKO et al.	10/25/1988	
	37	4,897,169		BIER et al.	01/30/1990	
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	39	5,043,048		MURALIDHARA	08/27/1991	
	40	5,080,770		CULKIN	01/14/1992	
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PSB	42	5,087,338		PERRY et al.	02/11/1992	

**FOREIGN PATENT DOCUMENTS**

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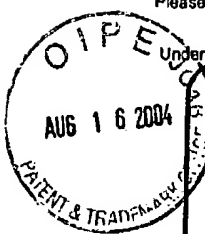
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<b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>  <i>(use as many sheets as necessary)</i>		Application Number		09/887,208	
		Filing Date			
		First Named Inventor		CONLAN	
		Group Art Unit			
		Examiner Name		A. PHASGE	
Sheet	3	of	4	Attorney Docket Number 56104576-23	

U.S. PATENT DOCUMENTS						
Examiner Initials <sup>1</sup>	Cite No. <sup>1</sup>	U.S. Patent Document		Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number	Kind Code <sup>2</sup> (if known)			
	43	5,096,547		KLOTZ et al.	03/17/1992	
	44	5,114,555		STIMPSON	05/19/1992	
	45	5,127,999		KLOTZ et al.	07/07/1997	
	46	5,160,594		HUFF et al.	11/03/1992	
	47	5,173,164		EGEN et al.	12/22/1992	
	48	5,185,086		KAALI et al.	02/09/1993	
	49	5,238,570		HUGL et al.	08/24/1993	
	50	5,277,774		SHMIDT et al.	01/11/1994	
	51	5,336,387		EGEN et al.	08/09/1994	
	52	5,340,449		SHUKLA	08/23/1994	
	53	5,352,343		BAILES et al.	10/04/1994	
	54	5,407,553		HERRON et al.	04/18/1995	
	55	5,420,047		BRANDT et al.	05/30/1995	
	56	5,441,646		HELLER et al.	08/15/1995	
	57	5,490,939		GERIGK et al.	02/13/1996	
	58	5,503,744		IKEMATSU et al.	04/02/1996	
	59	5,504,239		MEHL et al.	04/02/1996	
	60	5,558,753		GALLAGHER et al.	09/24/1996	
	61	5,561,115		TENOLD	10/01/1996	
	62	5,565,102		BRANDT et al.	10/15/1996	

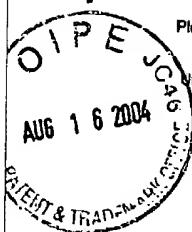
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Sheet 4 of 4

Comp

Application Number 09/887,208  
Filing Date  
First Named Inventor  
Group Art Unit  
Examiner Name  
Attorney Docket Number 56104576-23

### U.S. PATENT DOCUMENTS

Examiner Initials <sup>*</sup>	Cite No. <sup>1</sup>	U.S. Patent Document		Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number	Kind Code <sup>2</sup> (if known)			
AP	63	5,610,285		LEBING et al.	03/11/1997	/
	64	5,662,813		SAMMONS et al.	09/02/1997	
	65	5,723,031		DURR et al.	03/03/1998	
	66	5,733,442		SHUKLA	03/31/1998	
	67	5,736,023		GALLAGHER et al.	04/07/1998	
	68	5,868,938		BOMER, deceased, et al.	02/09/1999	
	69	5,891,736		CHAPOTEAU et al.	04/06/1999	
	70	5,906,724		SAMMONS et al.	05/25/1999	
	71	5,938,904		BADER et al.	08/17/1999	
	72	5,986,075		DUBOSE et al.	11/16/1999	
	73	6,093,296		SOANE et al.	07/25/2000	
	74	6,117,297		GOLDSTEIN	09/12/2000	
	75	6,129,842		KOSTANIAN	10/10/2000	
	76	6,171,825		CHAN et al.	01/09/2001	
AP	77	4,749,458		MUROI, et al.	06/07/1988	
	78	5,727,664		STOEV	06/1995	

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Examiner Initials <sup>*</sup>	Cite No. <sup>1</sup>	Foreign Patent Document			Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T <sup>6</sup>
		Office <sup>3</sup>	Number <sup>4</sup>	Kind Code <sup>5</sup> (if known)				
AP	79	UK	2 118 975 A		Nishizawa	02/16/1983		
	80	WO	93/06475		DOW Chemical Co.	04/01/1993		
	81	EP	0 639 945 A2		Aligena AG	11/09/1989		
	82	DE	41 16 179 A1		Serva Feinbio- chemica GMBH & Co.	11/19/1992		
AP	83	EP	0 477 541 B1		Waters Invest- ments Limited	08/23/1991		

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			Filing Date		
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			Group Art Unit		
			Examiner Name		
Sheet	4	of	14	Attorney Docket Number	56104576-23

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	65	5,662,813		SAMMONS et al.	09/02/1997	
	66	5,723,031		DURR et al.	03/03/1998	
	67	5,733,442		SHUKLA	03/31/1998	
	68	5,736,023		GALLAGHER et al.	04/07/1998	
	69	5,868,938		BOMER, deceased, et al.	02/09/1999	
	70	5,891,736		CHAPOTEAU et al.	04/06/1999	
	71	5,906,724		SAMMONS et al.	05/25/1999	
	72	5,938,904		BADER et al.	08/17/1999	
	73	5,986,075		DUBOSE et al.	11/16/1999	
	74	6,093,296		SOANE et al.	07/25/2000	
	75	6,117,297		GOLDSTEIN	09/12/2000	
	76	6,129,842		KOSTANIAN	10/10/2000	
	77	6,171,825		CHAN et al.	01/09/2001	

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Examiner Initials <sup>1</sup>	Cite No. <sup>1</sup>	Foreign Patent Document			Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Paragraphs or Relevant Figures Appear	T <sup>3</sup>
		Office <sup>4</sup>	Number <sup>4</sup>	Kind Code <sup>2</sup> (if known)				

Examiner Signature	<i>A. Phasq</i>	Date Considered	9/23/04
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Form PTO-1449 (modified)

List of Patents and Publications  
For Applicant's Information  
Disclosure Statement(Use several sheets if necessary)  
Page 6 of 14

ATTY. DOCKET NO.

56104576-23

SERIAL NO.

09/887,208

APPLICANT Brendon CONLAN et al.

FILING DATE

GROUP ART UNIT  
Examiner.

## U.S. PATENT DOCUMENTS

EXAM. INIT.	REF. DES.	DOCUMENT NUMBER	DATE	NAME	CLASS	SUB CLASS	FILING DATE IF APPROPRIATE

## FOREIGN PATENT DOCUMENTS

EXAM. INIT.	REF. DES.	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB CLASS	TRANSLATION YES/NO
	79	NO94/22904	13 October 94	Australia	A1		Yes

OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)

80	Corthals, G.L. et al, Electrophoresis, 1997, Vol. 18, No. 3-4, pages 317-323, "Prefractionation of Protein Samples Prior to Two-dimensional Electrophoresis".
81	Horvath, S.J. et al, Electrophoresis, 1996, Vol. 17, No. 1, pages 224-226, "Preparative Affinity Membrane Electrophoresis".
82	Corthals, G.L. et al, Electrophoresis, 1997, Vol. 17, No. 4, pages 771-775, "The Role of pH and Membrane Porosity in Preparative Electrophoresis".
83	Horvath, S.J. et al, Electrophoresis, 1995, Vol. 16, No. 1, pages 98-100, "Preparative Reflux Electrophoresis".
84	Horvath, S.J. et al, Electrophoresis, 1994, Vol. 15, No. 7, pages 968-971, "Multifunctional Apparatus for Electrokinetic Processing of Proteins".
85	Applied and Theoretical Electrophoresis, Vol. 3, No. 1, 1992, pages 13-16, C.W. Wrigley et al, "Rapid (Ten Minute) Pore-gradient Electrophoresis of Proteins and Peptides in Micrograd Gels".
86	Journal of Chromatography, Vol. 773, No. 1-2, 1997, pages 229-309, G.L. Corthals et al, "Purification by Reflex Electrophoresis of Whey Proteins and of a Recombinant Protein Expressed in Dictyostelium Discoideum".
87	Separation Science and Technology, Vol. 27, No. 1, 1992, pages 11-27, J.L. Schmidt et al, "Electrophoresis along a Semipermeable Membrane Surface".

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Page 7 of 14

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List of Patents and Publications For Applicant's Information Disclosure Statement	56104576-23	09/887,208
(Use several sheets if necessary)	APPLICANT Brendon CONLAN et al.	
	FILING DATE	GROUP ART UNIT Examiner:

## U.S. PATENT DOCUMENTS

EXAM. INIT.	REF. DES.	DOCUMENT NUMBER	DATE	NAME	CLASS	SUB CLASS	FILING DATE IF APPROPRIATE

## FOREIGN PATENT DOCUMENTS

EXAM. INIT.	REF. DES.	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB CLASS	TRANSLATION YES/NO

## OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)

88	Biotechnology and Bioengineering, Vol. 30, No. 1, 1987, pages 123-137, C. Mullon et al, "Forced-flow Electrophoresis of Proteins and Viruses".
89	Journal of Chromatography, Vol. 707, No. 1, 1995, pages 77-85, K.D. Cole et al, "Free-solution Electrophoresis of Proteins in an Improved Density Gradient Column and by Capillary Electrophoresis".

EXAMINER	DATE CONSIDERED
<i>A. Phasq</i>	9/23/04

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

Information Disclosure Statement--PTO-1449 (Modified)



Page 9 of 14

Form PTO-1449 INFORMATION DISCLOSURE CITATION IN AN APPLICATION	Attorney Docket No. 56104576-23	Serial No.: 09/887,208
Applicant: Brendon Conlan, et al.		
Filing Date:		Group Art Unit:

## U.S. PATENT DOCUMENTS

INITIAL*		DOCUMENT NO.	DATE	NAME	CLASS	SUBCLASS	FILING DATE (if appropriate)
	98	5,039,386	8/13/91	Margolis			
	99	4,746,647	5/88	Svenson			

## FOREIGN PATENT DOCUMENTS

		DOCUMENT NO.	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION? (YES/NO)
	100	94/22904	10/13/94	WO			

## OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

201	Corthals, G.L. et al., Electrophoresis, 1997, Vol. 18, No. 3-4, pages 317-323, "Prefractionation of Protein Samples Prior to Two-Dimensional Electrophoresis".
102	Horvath, S.V. et al., Electrophoresis, 1996, Vol. 17, No. 1, pages 224-226, "Preparative Affinity Membrane Electrophoresis".
103	International Search Report Dated 5/2/00
104	Corthals, G.L. et al., Electrophoresis, 1997, Vol. 17, No. 4, pages 771-775, "The Role of pH and Membrane Porosity in Preparative Electrophoresis".

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56104576-23

Application No. 09/887,208		Applicant(s) CONLAN ET AL			
Examiner Arun S. Phasge		Group Art Unit	Page 12 of 14		
U.S. PATENT DOCUMENTS					
DOCUMENT NO.	DATE	NAME	CLASS	SUBCLASS	
112 4,746,647	5/1988	SVENSON	204	543	
<i>Copied</i>					
FOREIGN PATENT DOCUMENTS					
DOCUMENT NO.	DATE	COUNTRY	NAME	CLASS	SUBCLASS
NON-PATENT DOCUMENTS					
DOCUMENT (Including Author, Title, Source, and Pertinent Pages)					DATE



	Application/Control No. 09/887,208	Applicant CONLAN ET AL
	Examiner Arun S. Phasge	Art Unit Page 13 of 14

## U.S. PATENT DOCUMENTS

*	Document Number Country Code-Number-Kind Code	Date MM-YYYY	Name	Classification
113	US-6464851 B1	10-2002	Conlan et al.	204/543
	US-			
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## FOREIGN PATENT DOCUMENTS

*	Document Number Country Code-Number-Kind Code	Date MM-YYYY	Country	Name	Classification
114	WO 94/22904	10-1994	PCT	Margolis	

## NON-PATENT DOCUMENTS

*	Include as applicable: Author, Title Date, Publisher, Edition or Volume, Pertinent Pages)
115	Mullon et al., " Forced-Flow Electrophoresis of Proteins and Viruses" (1987) Biotechnology and Bioengineering, Vol. XXX, Pp 123-137.

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<b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b> (Use as many sheets as necessary)		Application Number	09/887,208
		Filing Date	
		First Named Inventor	CONLAN
		Art Unit	
		Examiner Name	
Sheet 14 of 14	Attorney Docket Number	56104576-23	

U. S. PATENT DOCUMENTS					
Examiner Initials*	Cite No.	Document Number Number-Kind Code <sup>2</sup> (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
	116	US- 5087338	2/11/92	PERRY	
	117	US- 4749458	6/7/86	MUROH	
	118	US- 5727664	6/95	STOEV	
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FOREIGN PATENT DOCUMENTS					
Examiner Initials*	Cite No.	Foreign Patent Document Country Code <sup>3</sup> Number <sup>4</sup> Kind Code <sup>5</sup> (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
	119	UK 2118975A	2/16/83		
	120	WO 93/06475	4/1/93		
	121	EP 0569945A2	11/9/89		
	122	DE 4116179A1	11/19/92		
	123	EP 0477541B1	8/23/91		

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